

Amendments to the Specification:

Please replace the paragraph beginning at page 8, line 19, with the following amended paragraph:

A second reaction chamber 124 and a second coolant chamber 126 are provided in the second reactor vessel 120 in a similar fashion, except that the rim 250 of ~~the~~ a first face 116~~5~~ of the second reactor plate 200a abuts against the second end plate 320 to form the second reaction chamber 124, and ~~the~~ a second face 118~~7~~ of the second reactor plate 200a abuts against the separator plate 300 to form the second coolant chamber 126.

Please replace the paragraph beginning at page 9, line 20, with the following amended paragraph:

Figure 3 shows the second face 117 of the first reactor plate 200, which forms a portion of the coolant chamber 121. A coolant flow field 234 preferably composed of a number of substantially parallel tortuous ~~of~~ open-faced channels 245 is formed in the second face 117. The channels 245 extend between the coolant inlet 241 and coolant outlet 240. The gasket 401 provides a seal around the solution inlet 236 and solution outlet 237 to prevent the hydride solution from entering the coolant chamber 121. The coolant inlet 241 and coolant outlet 240 communicate with the first and second coolant connection ports 312, 313, respectively. The preferred coolant is water, but may be any other conventional heat transfer fluid.

Please replace the paragraph beginning at page 11, line 8, with the following amended paragraph:

Figure 5 shows one face of the separator plate 300 which is identical to the opposing face (not shown). Preferably, the separator plate 300 is a flat rectangular plate with two ports provided near each end thereof. Specifically, a separator solution inlet 336 and a separator coolant outlet 340 are formed near one end of the separator plate 300 while a separator solution outlet 337 and a separator coolant inlet 341 are formed near the opposite end thereof. As shown most clearly in Figure 1B, the ports on

the separator plate 300 communicate with ports on the first and second reactor plates 200 and 200a so that when the plates stack together, the inlets and outlets form four distribution conduits or ducts that extend throughout the reactor stack to distribute the solution and coolant from the first reactor plate 200 to second reactor plate 200a. The ducts communicate with the respective ones of the ports 312-315, as described above and shown in Figure 1B.

Please replace the paragraph beginning at page 13, line 1, with the following amended paragraph:

Referring to Figure 9, the coolant is delivered to the reactor stack 100 by a ~~solution-coolant~~ supply means. Preferably, the solution supply means is a second pump 550 which draws the coolant from a coolant container 560 through a pipe 570. The pipe 570 communicates with the first coolant connection port 312, which in turn communicates with the coolant inlet 241 of the first reactor plate 200.